CLASSIFICATION AND CORRELATION

OF

THE SOILS OF

HUNTINGTON COUNTY INDIANA

AUGUST 1980



U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
MIDWEST TECHNICAL SERVICE CENTER
LINCOLN, NEBRASKA

UNITED STATES DEPARTMENT OF AGRICULTURE Soil Conservation Service Midwest Technical Service Center Lincoln, Nebraska 68501

> Classification and Correlation of the Soils of Huntington County, Indiana

The final correlation conference for Huntington County, Indiana, was held May 19-23, 1980. Those participating in the correlation were David G. - Van Houten, field specialist (soils), Soil Conservation Service, Indianapolis, Indiana, (through telephone conversation) and Steve R. Base, soil correlator, Soil Conservation Service, Lincoln, Nebraska. The data reviewed consisted of the initial draft of the manuscript, field notes, laboratory data, field sheets, soil correlation samples, field correlation, and the SCS-SOILS-6 forms. Steve R. Base also participated in the comprehensive field review, which was held July 30-August 3, 1979.

Map symbols consist of a combination of letters or of letters and numbers. The first capital letter is the initial one of the map unit name. The lower-case letter that follows separates map units having names that begin with the same letter, except that it does not separate sloping or eroded phases. The second capital letter indicates the class of slope. Symbols without a slope letter are for nearly level soils. A final number of 2 indicates the soil is moderately eroded and 3 that it is severely eroded.

Field Symbols	Field Mapping Unit Name	Pub. Symbol	Approved Mapping Unit Name
De	Del Rey silty clay loam	ApA	Aptakisic silt loam
BcB2, BcA, To	Blount silt loam, 1 to 4 percent slopes, eroded) BcB2)	Blount silt loam, 1 to 4 percent slopes, eroded
ChB, ChC, OsA, OsB, OsC, OsD	Chelsea loamy sand, 3 to 12 percent slopes) ChB))	Chelsea loamy sand, 3 to 12 percent slopes
Ee	Eel silt loam, occasionally flooded) Ee)	Eel silt loam, occasionally flooded
FoA	Fox loam, 0 to 2 percent slopes) FoA)	Fox loam, 0 to 2 percent slopes
FoB	Fox loam, 2 to 6 percent slopes) FoB	Fox loam, 2 to 6 percent slopes
FoC2, FoC, FoD, OcD2, OcC, RoF) FoC2))	Fox loam, 6 to 12 percent slopes, eroded
Ge, Gh	Genesee silt loam, occasionally flooded) Ge)	Genesee silt loam, occasionally flooded
G1B2, MxB2	Glynwood silt loam, 3 to 7 percent slopes, eroded) G1B2)	Glynwood silt loam, 3 to 7 percent slopes, eroded
HcA, HcB, HcB2	Haskins loam, 1 to 4 percent slopes) HcA)	Haskins Variant fine sandy loam, 1 to 4 percent slopes
HeG, MtG	Hennepin silt loam, 30 to 70 percent slopes) HeG)	Hennepin loam, 30 to 70 percent slopes
Ho, Ad, Ed, Hp, Pc, Wa	Houghton muck, drained) Но))	Houghton muck, drained
McA	Martinsville loam, 0 to 2 percent slopes) McA)	Martinsville silt loam, O to 2 percent slopes
McB, McC	Martinsville loam, 2 to 8 percent slopes) McB)	Martinsville silt loam, 2 to 8 percent slopes
Ms	Millsdale silty clay loam	Ms	Millsdale silty clay loam
MtA	Milton silt loam, 0 to 2 percent slopes) MtA	Milton silt loam, 0 to 2 percent slopes

Field Symbols	Field Mapping Unit Name		Pub. Symbol	Approved Mapping Unit Name
MtB	Milton silt loam, 2 to 6 percent slopes)	MtB	Milton silt loam, 2 to 6 percent slopes
MtC, MtD	Milton silt loam, 6 to 15 percent slopes)	MtC	Milton silt loam, 6 to 15 percent slopes
MxC2	Morley silt loam, 6 to 12 percent slopes, eroded)	MxC2	Morley silt loam, 6 to 12 percent slopes, eroded
MxD2	Morley silt loam, 12 to 18 percent slopes, eroded)	MxD2	Morley silt loam, 12 to 18 percent slopes, eroded
MxE2, MxE3	Morley silt loam, 18 to 30 percent slopes, eroded)	MxE2	Morley silt loam, 18 to 30 percent slopes, eroded
MzC3, MxC3	Morley clay loam, 6 to 12 percent slopes, severely eroded)	MzC3	Morley clay loam, 6 to 12 percent slopes, severely eroded
MzD3, MxD3	Morley clay loam, 12 to 18 percent slopes, severely eroded)	MzD3	Morley clay loam, 12 to 18 percent slopes, severely eroded
OcA	Ockley loam, 0 to 2 percent slopes)	OcA	Ockley loam, 0 to 2 percent slopes
OcB	Ockley loam, 2 to 6 percent slopes	.)	ОсВ	Ockley loam, 2 to 6 percent slopes
Le	Lenawee silty clay loam		Pa	Patton silty clay loam
Mr, Mf	Milford silty clay loam		Pe	Patton silty clay loam, sandy substratum
Pg	Pewamo silty clay loam		Pg	Pewamo silty clay loam
Px	Pits, gravel		Px	Pits, gravel
Ру	Pits, quarry		Ру	Pits, quarry
RcA	Randolph silt loam, 0 to 2 percent slopes)	RcA	Randolph loam, 0 to 2 percent slopes
RgB, RgB2, MeB	Rawson loam, 2 to 6 percent slopes	(:)	RgB	Rawson Variant fine sandy loam, 2 to 6 percent slopes
RgC, RgC2, MeD	Rawson loam, 6 to 12 percent slopes)	RgC	Rawson Variant fine sandy loam, 6 to 12 percent slopes
Rk, We, Se	Rensselaer loam)	Rk	Rensselaer loam

Field Symbols	Field Mapping Unit Name	Pub. Symbol	Approved Mapping Unit Name
Sh	Shoals silt loam,) occasionally flooded)	Sh	Shoals silt loam, occasionally flooded
Sm, Sl	Sloan silt loam, frequently) flooded)	Sm	Sloan silt loam, frequently flooded
Ud, Or, Ob	Udorthents, loamy,) occasionally flooded)	Ud	Udorthents, loamy
Wo, Hm, Sk	Whitaker loam)	Wo	Whitaker loam

Series Established by This Correlation:

None

Series Dropped or Made Inactive:

None

Certification Statement:

The state soil scientist has certified that the soil mapping is complete and the detail maps and the general soils map have been joined. He has also certified that the interpretations for all the series used in Huntington County have been coordinated and that the locations of the typical pedons are in the soil areas using that reference name.

Verification of Cooperators Names:

The citations, as they will appear on the cover and on the inside of the front cover of the manuscript, are as follows:

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
IN COOPERATION WITH
PURDUE UNIVERSITY AGRICULTURAL EXPERIMENT STATION
AND
INDIANA DEPARTMENT OF NATURAL RESOURCES
SOIL AND WATER CONSERVATION COMMITTEE

Disposition of Field Sheets:

The original field sheets for Huntington County will be kept at the Indiana State Office where they will later be compiled and finished.

Prior Soil Survey Publications:

There are no prior soil survey publications for Huntington County.

Instructions for Map Compilation and the Map Finishing:

The symbols on the following conventional and special symbols legend are those that will be used in map finishing.

SCS-SOILS-37A 3-75

6/77 EDL:DWW: Rev 11/78 EDL:DWW

CONVENTIONAL AND SPECIAL Rev 8/79 EDL:DVH Soil Survey Area: Huntington County SYMBOLS LEGEND
Stote: Indiana Rev 3/80 ELJ:DVH

				6
DESCRIPTION SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
ULTURAL FEATURES	CULTURAL FEATUR	ES (cont.)	SPECIAL SYMBOLS FOR	3,
BOUNDARIES	MISCELLANEOUS CULTURAL FEATUR	ES	SOIL DELINEATIONS AND SOIL SYMBOLS	
	Fermstead, house (amit in urban eres	•	ESCARPMENTS Co/	FoB2
County or periah	Church	ă.		
Minor civil division	School	E		
Reservation (national forest or park,			SHORT STEEP SLOPE	
state forest or park, and large sirport)				
				-
Field sheet matchline & neatline			SOIL SAMPLE SITE (normally not shown)	S
			MISCELLANEOUS	
AD HOC BOUNDARY (Tabel)			missee Extraod	
Small airport, sirfield, park, olifield, cometery, or flood pool	****			
STATE COORDINATE TICK	WATER FEATURES			
LAND DIVISION CORNERS	DRAINAGE			
(sections and land grants)	Perennial, double line			_
Divided (median shown if scale permits)	Perennial, single line		Dumps and other similar non soll areas	Ξ
	Intermittent	·		
County, farm or ranch	Drainage end		Rock outcrop (includes sandstone and she	ie) V
	Canals or ditches			
ROAD EMBLEMS & DESIGNATIONS			Sandy spot	\approx
Interstate 66			Severely eroded spot	÷
Federal 287				
State 52			Stony spot	0
Other 398	LAKES, PONOS AND RESERVOIRS		RECOMMENDED AD HOC SOIL SYMBOLS	
RAILROAD +	Perential	water w		
	ANGELL ANGELIE WATER SEATINGS		Small undrained	Φ
	MISCELLANEOUS WATER FEATURES		depression	
LEVEES				
Without road				
DAMS	Wet spot	*		
Medium or small		•		
PITS				
Graves pit				

PRIME FARMLAND MAP UNITS

ApA	Aptakisic silt loam, 0 to 2 percent slopes (where drained)
BcB2	Blount silt loam, 1 to 4 percent slopes, eroded (where drained)
Ee	Eel silt loam, occasionally flooded
FoA	Fox loam, 0 to 2 percent slopes
FoB	Fox loam, 2 to 6 percent slopes
Ge	Genesee silt loam, occasionally flooded
G1B2	Glynwood silt loam, 3 to 7 percent slopes, eroded
HcA	Haskins Variant fine sandy loam, 1 to 4 percent slopes (where
	drained)
McA	Martinsville silt loam, 0 to 2 percent slopes
McB	Martinsville silt loam, 2 to 8 percent slopes
Ms	Millsdale silty clay loam (where drained)
MtA	Milton silt loam, 0 to 2 percent slopes
MtB	Milton silt loam, 2 to 6 percent slopes
OcA	Ockley loam, 0 to 2 percent slopes
OcB	Ockley loam, 2 to 6 percent slopes
Pa	Patton silty clay loam (where drained)
Pe	Patton silty clay loam, sandy substratum (where drained)
Pg	Pewamo silty clay loam (where drained)
RcA	Randolph loam, 0 to 2 percent slopes (where drained)
RgB	Rawson Variant fine sandy loam, 2 to 6 percent slopes
Rk	Rensselaer loam (where drained)
Sh	Shoals silt loam, occasionally flooded (where drained)
Wo	Whitaker loam (where drained)

Approved: August 20, 1980

Maurice Stout, Jr. Head, Soils Staff Midwest TSC

CONVERSION LEGEND RELATING FIELD MAP SYMBOL TO PUBLICATION SYMBOL

Field	Publication Symbol	Field	Publication
Symbol		Symbol	Symbol
Ad	Ho BcB2 BcB2 ChB	MxD2	MxD2
BcA		MxD3	MzD3
BcB2		MxE2	MxE2
ChB		MxE3	MxE2
ChC		MzC3	MzC3
De	ApA	MzD3	MzD3
Ed	Ho	Ob	Ud
Ee	Ee	OcA	OcA
FoA	FoA	OcB	OcB
FoB	FoB	OcC	FoC2
FoC FoC2 FoD Ge Gh	FoC2 FoC2 FoC2 Ge	OcD2 Or OsA OsB OsC	FoC2 Ud ChB ChB ChB
G1B2	G1B2	OsD	ChB
HcA	HcA	Pc	Ho
HcB	HcA	Pg	Pg
HcB2	HcA	Px	Px
HeG	HeG	Py	Py
Hm	Wo	RcA	RcA
Ho	Ho	RgB	RgB
Hp	Ho	RgB2	RgB
Le	Pa	RgC	RgC
McA	McA	RgC2	RgC
McB	McB	Rk	Rk
McC	McB	RoF	FoC2
MeB	RgB	Se	Rk
MeD	RgC	Sh	Sh
Mf	Pe	Sk	Wo
Mr	Pe	S1	Sm
Ms	Ms	Sm	Sm
MtA	MtA	To	BcB2
MtB	MtB	Ud	Ud
MtC	MtC	Wa	Ho
MtD MtG MxB2 MxC2 MxC3	MtC HeG G1B2 MxC2 MzC3	We Wo	Rk Wo

CLASSIFICATION OF PEDONS SAMPLED FOR LABORATORY ANALYSIS

Laboratory Data--Purdue University $\frac{1}{}$

Sampled As	Sample No.	Publication Map Symbol	Approved Classification
Aptakisic	S78IN69-12	ApA	Aptakisic
Blount	S77IN69-1	BcB2	Blount
Fox	S78IN69-6	FoB	Fox
Haskins	S78IN69-5	HcA	Haskins Variant ² /
Hennepin	S77IN69-2	HeG	Hennepin
Martinsville	S78IN69-13	McB	Martinsville taxadjunct $\frac{2}{}$
Millsdale	S77IN69-7	Ms	Millsdale
Morley	S77IN69-3	MxC2	Morley
Ockley	S77IN69-4	OcA	Ockley taxadjunct $\frac{2}{}$
Patton	S78IN69-1	Pa	Patton
Patton sandy substratum	S78IN69-2	Pe	Patton
Pewamo	S77IN69-5	Pg	Pewamo taxadjunct $\frac{2}{}$
Randolph	S77IN69-6	RcA	Randolph
Rawson	S78IN69-3	RgB	Rawson Variant $\frac{2}{}$

 $[\]frac{1}{2}$ SCS-SOILS-8 forms have been prepared.

 $[\]frac{2}{\text{Refer}}$ to "Notes to Accompany Classification and Correlation."

Notes to Accompany Classification and Correlation of the Soils of Huntington County, Indiana

> by Steve R. Base

APTAKISIC SERIES

The B22t and B3t horizons have a higher chroma than is typical for the series. Also, the lower part of the B horizon and the C horizon lack strata of sand.

BLOUNT SERIES

Some pedons have an Ap horizon with a higher chroma than is typical of the series.

CHELSEA SERIES

This soil contains lime in the lower part of the profile but is not considered to be a taxadjunct.

HASKINS VARIANT

The IIB and IIC horizons contain less clay than is allowed in the series. It is an Aeric Ochraqualf; fine-loamy, mixed, mesic.

MARTINSVILLE SERIES

This soil has a base saturation of 47 percent at 50 inches below the top of the argillic horizon. It is a taxadjunct and classifies as an Ultic Hapludalf; fine-loamy, mixed, mesic.

MILLSDALE SERIES

The upper subsoil is more alkaline and the IICg horizon contains more coarse fragments than is typical for the series.

MILTON SERIES

Some of the Milton soils in Huntington County seem to be underlain with dolomite and siltstone.

OCKLEY SERIES

This soil is a taxadjunct because it contains less clay in the upper part of the subsoil than is typical for the series and lacks an argillic horizon. It is a Dystric Eutrochrept; coarse-loamy, mixed, mesic.

PATTON SERIES

The Patton soil in map unit Pa, Patton silty clay loam, has a little thinner A horizon than is typical for the series.

PEWAMO SERIES

This soil lacks an argillic horizon and is a taxadjunct to the series. It is a Typic Haplaquoll; fine, mixed, mesic.

RANDOLPH SERIES

This soil has an A&B horizon.

RAWSON VARIANT
This soil is a taxadjunct because it contains less clay than defined for the Rawson series. It is a Typic Hapludalf; coarse-loamy, mixed, mesic.

CLASSIFICATION OF THE SOILS

Soil Series Soil Family

Aptakisic Aeric Ochraqualfs; fine-silty, mixed, mesic

Blount Aeric Ochraqualfs; fine, illitic, mesic

Chelsea Alfic Udipsamments; mixed, mesic

Eel Aquic Udifluvents; fine-loamy, mixed, nonacid, mesic

Fox Typic Hapludalfs; fine-loamy over sandy or sandy-skeletal,

mixed, mesic

Genesee Typic Udifluvents; fine-loamy, mixed, nonacid, mesic

Glynwood Aquic Hapludalfs; fine, illitic, mesic

Haskins Variant Aeric Ochraqualfs; fine-loamy, mixed, mesic

Hennepin Typic Eutrochrepts; fine-loamy, mixed, mesic

Houghton Typic Medisaprists; euic, mesic

*Martinsville Typic Hapludalfs; fine-loamy, mixed, mesic

Millsdale Typic Argiaquolls; fine, mixed, mesic

Milton Typic Hapludalfs; fine, mixed, mesic

Morley Typic Hapludalfs; fine, illitic, mesic

*Ockley Typic Hapludalfs; fine-loamy, mixed, mesic

Patton Typic Haplaquolls; fine-silty, mixed, mesic

*Pewamo Typic Argiaquolls; fine, mixed, mesic

Randolph Aeric Ochraqualfs; fine, mixed, mesic

Rawson Variant Typic Hapludalfs; coarse-loamy, mixed, mesic

Rensselaer Typic Argiaquolls; fine-loamy, mixed, mesic

Shoals Aeric Fluvaquents; fine-loamy, mixed, nonacid, mesic

Sloan Fluvaquentic Haplaquolls; fine-loamy, mixed, mesic

Udorthents; loamy, mixed, mesic

Whitaker Aeric Ochraqualfs; fine-loamy, mixed, mesic

*Taxadjunct--See "Notes to Accompany Classification and Correlation of the Soils of Huntington County, Indiana," for details.